

Composite insulated gloves

30202 SGM



Composite insulated gloves provide electrical, mechanical and arc-flash protection, and as such do not need to be combined with any other kind of glove with mechanical protection.

The Composite glove range is made using a natural latex base covered by an outer layer of polychloroprene, combining mechanical resistance and comfort with a high level of protection.

Arc flash protection: the glove material has excellent properties in the event of a short circuit in the electric arc.



Outside in red and beige inside.

CE  IEC 60903
IEC 61482-1-2

Available in sizes: 7, 8, 9, 10, 11 and 12

Code	Ref.	Class	Thickness (mm) max.	Working Voltage (V) max.	Proof test Voltage (V) max.	Size	Length (mm)	Category
531110	SGM-25 T9	00	< 2.4	500 V AC	2.500 V AC	7*	360	RC
531120	SGM-25 T10							
531150	SGM-50 T9	0	< 2.9	1.000 V AC	5.000 V AC	8*		
531160	SGM-50 T10							
531190	SGM-10 T9	1	< 3.4	7.500 V AC	10.000 V AC	9		
531200	SGM-10 T10							
531230	SGM-20 T9	2	< 3.9	17.000 V AC	20.000 V AC	10		
531240	SGM-20 T10							
531270	SGM-30 T9	3	< 4.2	26.500 V AC	30.000 V AC	11		
531280	SGM-30 T10							
531310	SGM-40 T10	4	< 4.8	36.000 V AC	40.000 V AC	12*		
531320	SGM-40 T11							

Meaning of letters in 'Categories': A: Acid / Z: Ozone / H: Oil / C: Very low temperature / R: A+Z+H resistance.

*For sizes 7, 8 and 12 consult.

MECHANICAL AND THERMAL REQUIREMENTS

- Average tensile strength: ≥ 16 MPa
- Average elongation at break: $\geq 600\%$
- Tension set: $\leq 15\%$
- **Complementary test and performance levels to be achieved are as follows:**
 - Resistance to cutting: > 20 mm and 5N, according to ISO13997 (equivalent to level 2 according to EN 388)
 - Resistance to abrasion: $\geq 0,05$ mg/t
 - Tearing resistance to: > 25 N (equivalent to level 2 according to EN 388)
 - Resistance to penetration: > 60 N (equivalent to level 2 according to EN 388)
 - Resistance to very low temperatures: Conditioning of the gloves for 24 hours at -40 °C. ± 3 °C.
 - Flame-retardant test: Application of a flame for 10 seconds at a finger tip.



RECOMMENDED SIZE	9	10	11
Contour cm (measured with closed hand)	21	24	26



MANUFACTURING AND RETESTING OF INSULATING GLOVES

At Sofamel, we have a fully dedicated production line for the manufacturing of latex insulating gloves. Our processes are certified under the ISO9001:2015 quality standard and comply with the requirements established by the EN 60903:2003 and IEC 60903:2014 standards.

We also have a specially designed glove retesting booth for conducting electrical tests, allowing us to offer all our customers the best after-sales service for dielectric gloves.



YOUR SAFETY IS VITAL

THEREFORE, IT IS VERY IMPORTANT TO PERFORM REGULAR CHECKS OF INSULATING GLOVES

RECOMMENDATIONS FOR THE MAINTENANCE AND VERIFICATION OF INSULATING GLOVES

Insulating gloves for live working are personal protective equipment (PPE) that prevent electrical risks and are classified as category III (fatal risk) under Directive EU 2016/425. The reference standards (EN 60903 and IEC 60903) define the RECOMMENDATIONS for usage and verification.

CLASS 0 and 00 GLOVES	Air leakage test and visual inspection	RECOMMENDED BEFORE EACH USE
	Dielectric properties test	UPON CUSTOMER REQUEST
CLASS 1 and 4 GLOVES	Air leakage test and visual inspection	RECOMMENDED BEFORE EACH USE
	Dielectric properties test	MANDATORY <ul style="list-style-type: none"> Every 6 months from the start of service. Maximum of 12 months from the date of manufacture if not used.

THE DEFINITION OF A GLOVE'S LIFESPAN IN NO WAY EXCLUDES THE RECOMMENDATIONS REGARDING PERIODIC CHECKS.

Storage conditions

According to the EN 60903 and IEC 60903 standards for class C, the gloves can be used at ambient temperatures between -40°C and +55°C.

The gloves are delivered in a UV-resistant plastic bag suitable for transportation and storage. Store the gloves in a dry, dark place at a temperature between 10°C and 21°C; do not compress, fold, or store them near sources of heat, light, or ozone.